LOGISTICS INFORMATION SPO
Enterprise Building and Lessons Learned on the Way

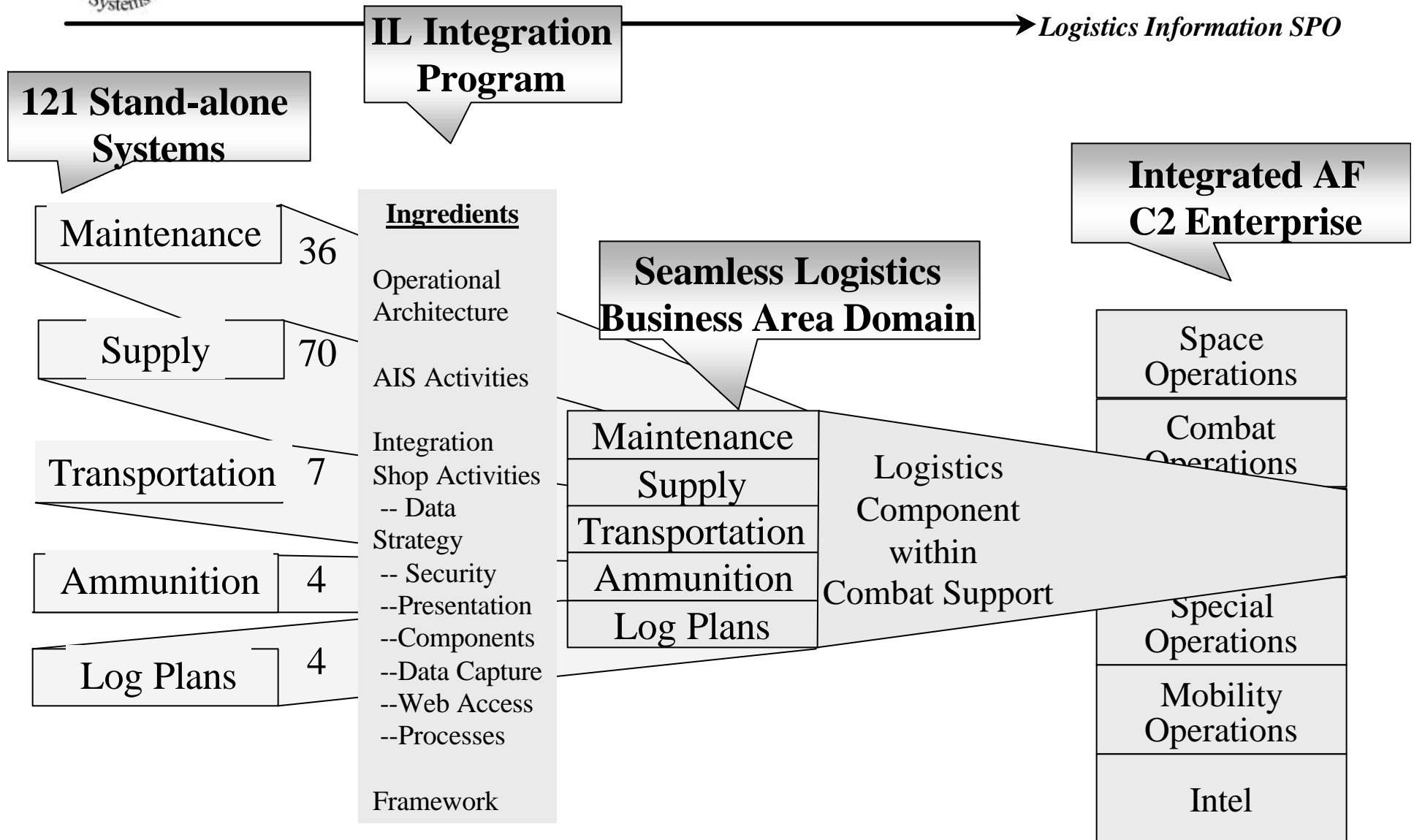## LTC John Courtney

Who are we and why are we here?

Logistics Information Systems SPO

Acquire, sustain and modernize 121 Logistics Information Systems supporting 200,000 users at 350 installations

Provide an overview of our efforts to build An integrated logistics enterprise and describe the lessons we learned along the way

Seamless Logistics Vision

IL Integration Program

Logistics Information SPO

121 Stand-alone Systems

Integrated AF C2 Enterprise

Maintenance	36
Supply	70
Transportation	7
Ammunition	4
Log Plans	4

Ingredients

Operational
Architecture

AIS Activities

Integration
Shop Activities
 -- Data
Strategy
 -- Security
 --Presentation
 --Components
 --Data Capture
 --Web Access
 --Processes

Framework

Seamless Logistics Business Area Domain

| Maintenance |
| Supply |
| Transportation |
| Ammunition |
| Log Plans |

Logistics
Component
within
Combat Support

| Space Operations |
| Combat Operations |
| Special Operations |
| Mobility Operations |
| Intel |

Enterprise Building Fundamentals

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Direction from the Customer

Right personnel skill mix

Plan to get there (Integrated Enterprise)
plans – goals – implementation steps

IL Data Strategy – Levels of Integration

You build an Integrated Enterprise in steps….

Level 1: Implement Data Interchange Early

Level 2: Implement Web Presentation and Thin
Clients

Level 3: Use IF Services/Enterprise Components

Level 4: Migrate to a Relational Database

Level 5: Functional Componentization

ESC/ILI Goals = Heading Check

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What the Enterprise we're building should offer:

Goal 1: Reduce the cost of delivering information

Goal 2: Provide all logistics system users with total asset visibility

Goal 3: Better support deployed forces/Improve information Access

Goal 4: Improve the integrity of data

Goal 5: Improve decision support systems

ILI's Plan for Building an Enterprise
"The What and How"

Concept of Operations

Migration Plan Developer's Guide

Data Strategy

Data Architecture

Executive Integration Handbook/Program Manager's Integration Handbook

How do we measure our success against the plan

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Integration Metrics --- philosophy

Reduction in Legacy Systems

Moving from Interfaces to BODs

Use of Integration Framework Services

Populating the Metadata Repository

Web-Based/GUI

Site Surveys Accomplished

Use of AIT (% of Data Captured by AIT)

Integrated Master Schedule
(What do we do next -AIS)

Roadmap to Integrated Logistics System

- Identifies Critical Path – Priority Tasks
- Identifies Opportunities for Common Effort/Savings

Highlights Four Major Activities

- Program Modernization
- Integration/Technical Requirements Satisfaction
- AIS Migrations
- ILI Integration Support Tasks

http://www.ilspo.wpafb.af.mil/ilx/

Experience Is A Great Teacher

Lessons Learned While Building The Enterprise...........

-- COTS

    -- Spiral Modernization

        -- Enterprise Solutions

    -- Portals make sense

-- Rules of Thumb

COTS: Here's What Happened

- DeCA, USTRANSCOM, SSG/IL (ILS-S, IMDS) and MSG (JAMS) all tried to use COTS to replace whole, complex legacy systems

    - Each attempt resulted in failure…..

Why It We Did

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- We thought COTS was a way to save both money and time

- Vendors, not the AF would pay for future upgrades and we get the next improved version for virtually nothing

- Large organic govt programming staffs would no

  longer be needed

Unfortunately, COTS did neither (context: when

  used to replace a complex legacy system)

What We Learned

COTS didn't support AF business processes (nor could we easily change those processes)

COTS implementations rely on other COTS products to work in harmony - result - significant unexpected costs

COTS more difficult to integrate - result - custom code and no reduction in time to field (could cause COTS to be GOTS)

COTS release schedule not driven by the AF but by marketplace - result - AF might wait for a critically needed improvement

COTS doesn't reduce the AF support staff as first envisioned and Integration of COTS proved (sometimes) tougher than development

Where COTS Makes Sense

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-Use it for security, system communication, data aggregation, data access (portal) -

- •These functions lend themselves to commercial, "open" solutions (COTS strength)

- Use COTS to solve aspects of an AIS implementation (example: A self life management component)

- Use it to remedy shortfalls in an AIS functionality - like asset visibility

- If you buy an Enterprise License (like ORACLE) ensure you use it whenever possible

Spiral Modernization

-- No more "big bangs"

-- Modernization occurs in small spirals

-- Allows developing programs to adapt to a changing environment (leveraging new technology)

Enterprise Solutions

-- "Tool of the month club" solutions to specific application shortfalls

-- Better to solve similar problems in all applications with an Enterprise approach

    Example: Virtual Database Tool solves asset visibility in legacy systems

Portal Benefits for IL Users

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Application Access

Allows IL functionals access to the info systems/tools they need to answer do their business/questions (ie. Kosovo Log Ops Center)

Single Sign-on

RSS members need up to 20 passwords

Ask "Chief Jeeves" message archive

Allows maintainers to informally post problems and solutions, allows official postings as well

Self-Service AF and Logistics

Allows authorized users to order without visiting Supply Customer Service

Supply Chain Asset Tracking/Analysis (where's my stuff?)

Portal tools include - email, MS suite, customizable page content commercial/military content, AF White Pages

SUMMARY –
Rules of Thumb

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Data is an Enterprise asset; investment x in data management will yield a possible 2x result

Dirty data faster ensures Senior Level interest and ….resources

Build solutions based on standards not products suites

Use the Enterprise approach to licensing, share acquisitions (Army, Navy, Marines)

Balance strategic Integration with functional improvements - result: customer satisfaction

Provide clear integration and architectural direction to those implementing program improvements